

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
31 March 2005 (31.03.2005)

PCT

(10) International Publication Number  
**WO 2005/029014 A2**

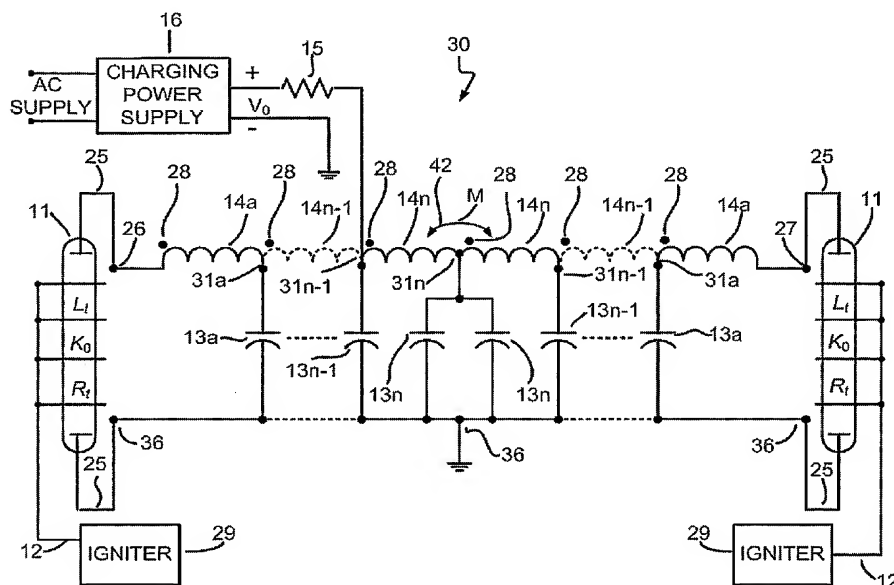
(51) International Patent Classification<sup>7</sup>: **G01J**  
(21) International Application Number:  
PCT/IL2004/000873  
(22) International Filing Date:  
21 September 2004 (21.09.2004)  
(25) Filing Language: English  
(26) Publication Language: English  
(30) Priority Data:  
60/505,024 24 September 2003 (24.09.2003) US  
(71) Applicant (for all designated States except US): **T Squared Thermal Technologies, Ltd.** [IL/IL]; p.o.box 70084, 31700, Haifa (IL).  
(72) Inventor; and  
(75) Inventor/Applicant (for US only): **BARAK, Menashe** [IL/IL]; 26 Leah street, 34403 Haifa (IL).  
(74) Agent: **MILLER - SIERADZKI ADVOCATES & PATENT ATTORNEYS**; P.O.Box 6149, 31061 Haifa (IL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.  
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:  
— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: PULSE FORMING NETWORK AND PULSE GENERATOR



(57) Abstract: A pulse forming network device and method is disclosed. The device comprising two pulse forming networks, a first pulse forming network comprising n sections, n being an integer, and a second pulse forming network comprising m sections, m being an integer, each of the sections of the first and the second pulse forming networks comprising at least one capacitor and at least one inductor, and each pulse forming network having one output port for connecting a load, the two pulse forming networks electrically connected and magnetically coupled back to back. A method and device for extinguishing an electrical pulse generated by a pulse generator is also disclosed.

WO 2005/029014 A2



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*